

CLAIMS

5 1. An adhesive mesh tape for preventing implosion of a cathode-ray tube, comprising

5 having first and second main surfaces;

10 a hot-melt resin provided on all or a portion of the surface of said fabric; and

15 a pressure-sensitive adhesive disposed on said first main surface of said fabric.

10 2. The adhesive mesh tape according to claim 1, wherein the total volume of said hot-melt resin and said pressure-sensitive adhesive is less than the volume of the open space of said fabric, so that all said hot-melt resin and said pressure-sensitive adhesive can be 15 incorporated into said open space of said fabric when said adhesive mesh tape is clamped between a cathode-ray tube and a metal clamping band.

20 3. The adhesive mesh tape according to claim 2, wherein the total volume of said hot-melt resin and said pressure-sensitive adhesive is not more than three fourths of the volume of the open space of said fabric.

25 4. The adhesive mesh tape according to claim 3, wherein the total volume of said hot-melt resin and said pressure-sensitive adhesive is not more than the half of the volume of the open space of said fabric.

5. The adhesive mesh tape according to claim 1, wherein at least wefts of said fabric are glass yarns.

6. The adhesive mesh tape according to claim 1, wherein at least part of said fabric is colored black.

30 7. The adhesive mesh tape according to claim 1, wherein said fabric has a compression breaking strength of not less than 5 kgf/cm.

35 8. The adhesive mesh tape according to claim 1, wherein said fabric comprises wefts and warfs at a density in a range of 5 to 50 yarns per 25 mm and said yarns have a thickness in a range of 50 to 1300 denier.

9. The adhesive mesh tape according to claim 1,

wherein said hot-melt resin is coated on said fabric in an amount of 5 to 40 g/m².

10. A method for reinforcing a cathode-ray tube to prevent an implosion thereof, said method comprising

5 preparing a cathode-ray tube having a peripheral portion and covered with a transparent electrically conductive film;

10 winding an adhesive tape according to claim 1 completely or partly on the peripheral portion of the cathode-ray tube; and

15 clamping the cathode-ray tube with a metal clamping band around the peripheral portion of the tube and on top of the adhesive tape, by heating the metal clamping band to a temperature of not less than 60.

20 degree. C. and placing the metal clamping band around the adhesion tape and then cooling the metal clamping band to fix the adhesive tape to the peripheral portion of the tube by the metal clamping band.

25 11. The method according to claim 10, wherein said cathode-ray tube has a flat front surface.

30 12. The method according to claim 11, wherein said peripheral portion of said cathode-ray tube has an inclination angle of more than 5°.

35 13. A cathode-ray tube comprising a cathode-ray tube body having a peripheral glass portion and covered with a transparent electrically conductive film;

a metal clamping band wound around said peripheral portion of said tube; and

40 an adhesive mesh tape according to claim 1, lying between said cathode-ray tube and said metal clamping band, wherein all or most of the yarns of said fabric is in direct contact with the glass surface of said tube and/or the metal surface of said metal clamping band and said glass surface of said tube and said metal clamping band are bonded together with the hot-melt resin either through or not through said fabric yarns therebetween.

14. The cathode-ray tube according to claim 13, wherein said cathode-ray tube has a flat front surface.

15. The cathode-ray tube according to claim 14,
wherein said peripheral portion of said cathode-ray tube
has an inclination angle of more than 5°.